

General

Title

Prevention of surgical wound infection: does the hospital take steps to monitor and control normothermia in major surgery (procedures lasting more than two hours)?

Source(s)

Ministry of Health. Safe practices indicators project: background, summary of methods and measurement strategies. Madrid: Ministry of Health; 2009 Feb 20. 97 p.

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Structure

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to determine whether or not the hospital takes steps to monitor and control normothermia in major surgery (procedures lasting more than two hours). These practices must include monitoring of temperature and use of at least one of the following: warm saline solution, thermal blankets or forced warm air.

Rationale

The essential foundation of infection control for patients undergoing surgery includes operating room (OR) practices for preparing and maintaining an aseptic surgical field within a controlled environment that minimizes contamination; proper sterilization of surgical instruments, attire and surgical scrub of the OR team; meticulous surgical technique; and careful post-operative wound care. The effectiveness of these practices has been demonstrated over time.

The existence of practices for monitoring and control of normothermia in surgical procedures lasting more than two hours reflects endeavors on the part of the surgical unit to prevent surgical site infections.

Evidence for Rationale

Ministry of Health. Safe practices indicators project: background, summary of methods and measurement strategies. Madrid: Ministry of Health; 2009 Feb 20. 97 p.

Primary Health Components

Major surgery; monitoring and control of normothermia

Denominator Description

This measure applies to hospitals (one hospital at a time).

Numerator Description

The hospital takes steps to monitor and control normothermia in major surgery (procedures lasting more than two hours). These practices must include monitoring of temperature and use of at least one of the following: warm saline solution, thermal blankets or forced warm air.

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

A systematic review of the clinical research literature (e.g., Cochrane Review)

One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

Additional Information Supporting Need for the Measure

Hospitals practice some intervention to keep normothermia in surgical interventions lasting more than two hours, but temperature is not routinely controlled in 75% of them, and these practices are not routinely extended to the reanimation period in 30% of the centers.

Evidence for Additional Information Supporting Need for the Measure

Ministerio de Sanidad y Consumo. Indicadores de buenas practicas sobre seguridad del paciente. Resultados de su medicion en una muestra de hospitales del sistema nacional de salud España. Madrid: Ministerio de Sanidad y Consumo; 2008. 95 p.

Extent of Measure Testing

After pilot testing, the set of indicators has been measured in a random sample of 25 Spanish hospitals, stratified by hospital size. The main objective has been to field test the feasibility of measurement in the various settings representing real life situations in the context of the Spanish Health Care System.

Both the whole indicators validation report and the results of the baseline measurement in a sample of the Spanish National Health Service (NHS) hospitals may be accessed and downloaded from the Spanish Ministry of Health web page (in Spanish):

- Validation report
- Results of baseline measurement in Spanish NHS hospitals

Evidence for Extent of Measure Testing

Ministerio de Sanidad y Consumo. Construcción y validación de indicadores de buenas prácticas sobre seguridad del paciente. Madrid: Ministerio de Sanidad y Consumo; 2008. 178 p.

Ministerio de Sanidad y Consumo. Indicadores de buenas prácticas sobre seguridad del paciente. Resultados de su medición en una muestra de hospitales del sistema nacional de salud Español. Madrid: Ministerio de Sanidad y Consumo; 2008. 95 p.

Ministry of Health. Safe practices indicators project: background, summary of methods and measurement strategies. Madrid: Ministry of Health; 2009 Feb 20. 97 p.

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Hospital Inpatient

Hospital Outpatient

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size

Does not apply to this measure

Target Population Age

Does not apply to this measure

Target Population Gender

Does not apply to this measure

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Not within an IOM Care Need

IOM Domain

Not within an IOM Domain

Data Collection for the Measure

Case Finding Period

Unspecified

Denominator Sampling Frame

Health care or public health organization

Denominator (Index) Event or Characteristic

Does not apply to this measure

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

This measure applies to hospitals (one hospital at a time).

Exclusions

None

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

The hospital takes steps to monitor and control normothermia in major surgery (procedures lasting more than two hours). These practices must include monitoring of temperature and use of at least one of the following: warm saline solution, thermal blankets or forced warm air.

Exclusions

None

Numerator Search Strategy

Fixed time period or point in time

Data Source

Health professional survey

Type of Health State

Does not apply to this measure

Instruments Used and/or Associated with the Measure

None

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Dichotomous

Interpretation of Score

Desired value is presence of a characteristic

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Identifying Information

Original Title

Existence of practices for monitoring and control of normothermia in major surgery (procedures lasting more than two hours).

Measure Collection Name

Safe Practices Indicators Project

Measure Set Name

Adopting Safe Practices in Specific Clinical Care Settings or for Specific Processes of Care

Measure Subset Name

Prevention of Surgical Site Infection

Submitter

Spanish Agency for Healthcare Quality of the Spanish Ministry of Health - National Government Agency [Non-U.S.]

Developer

Grupo de Investigación sobre Gestión de la Calidad en Servicios de Salud, University of Murcia, under contract to the Spanish Ministry of Health - National Government Agency [Non-U.S.]

Funding Source(s)

Agency for Quality, Spanish Ministry of Health

Composition of the Group that Developed the Measure

Saturno, Pedro J., MD, DrPH; Group Director and Project PI

Castillo, Carmen; López, M. José; Ramón, Teresa; Nurses

Carrillo, Andrés, MD; Intensive Care Specialist

Iranzo, M. Dolores; Hospital pharmacist

Soria, Victor, MD; Surgeon

Parra, Pedro, MD; Gomis, Rafael, MD; Gasc  n, Juan J., MD; Quality Management Specialists

Financial Disclosures/Other Potential Conflicts of Interest

Project entirely financed by the Spanish Ministry of Health.

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2009 Feb

Measure Maintenance

Unspecified

Date of Next Anticipated Revision

Unspecified

Measure Status

This is the current release of the measure.

The measure developer reaffirmed the currency of this measure in April 2016.

Measure Availability

Source not available electronically.

For more information, contact:

- Ministry of Health and Social Policy, at Paseo del Prado, 18-20, planta baja, esquina con Lope de Vega. 28014 Madrid; Phone: +34 901 400 100; Fax: +34 915 96 44 80; Web site: www.msc.es/en/home.htm .
- OR
- Pedro J. Saturno, Facultad de Medicina, at Universidad de Murcia, 30100 Espinardo-Murcia (Spain); Phone: 868 883 948; Fax: +34 868 883947; E-mail: psaturno@umes.

Companion Documents

The following are available:

- Ministerio de Sanidad y Consumo. Construcc  n y validaci  n de indicadores de buenas practicas sobre seguridad del paciente. Madrid: Ministerio de Sanidad y Consumo; 2008. 178 p. This document is available in Portable Document Format (PDF) from the [Ministry of Health and Social Policy Web site](#) (in Spanish).
- Ministerio de Sanidad y Consumo. Indicadores de buenas practicas sobre seguridad del paciente. Resultados de su medici  n en una

muestra de hospitales del sistema nacional de salud Español. Madrid: Ministerio de Sanidad y Consumo; 2008. 95 p. This document is available in PDF from the [Ministry of Health and Social Policy Web site](#) (in Spanish).

NQMC Status

This NQMC summary was completed by ECRI Institute on September 11, 2009. The information was verified by the measure developer on December 23, 2009.

This NQMC summary was retrofitted into the new template on July 27, 2011.

The information was reaffirmed by the measure developer on April 4, 2016.

Copyright Statement

No copyright restrictions apply.

Production

Source(s)

Ministry of Health. Safe practices indicators project: background, summary of methods and measurement strategies. Madrid: Ministry of Health; 2009 Feb 20. 97 p.

Disclaimer

NQMC Disclaimer

The National Quality Measures Clearinghouse^{â„¢} (NQMC) does not develop, produce, approve, or endorse the measures represented on this site.

All measures summarized by NQMC and hosted on our site are produced under the auspices of medical specialty societies, relevant professional associations, public and private organizations, other government agencies, health care organizations or plans, individuals, and similar entities.

Measures represented on the NQMC Web site are submitted by measure developers, and are screened solely to determine that they meet the [NQMC Inclusion Criteria](#).

NQMC, AHRQ, and its contractor ECRI Institute make no warranties concerning the content or its reliability and/or validity of the quality measures and related materials represented on this site. Moreover, the views and opinions of developers or authors of measures represented on this site do not necessarily state or reflect those of NQMC, AHRQ, or its contractor, ECRI Institute, and inclusion or hosting of measures in NQMC may not be used for advertising or commercial endorsement purposes.

Readers with questions regarding measure content are directed to contact the measure developer.